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From the			WIPO PCT					
INTERNATIONAL SEARCHING AUTH To: CRAIG J. ARNOLD	OKI I	PCT						
AMSTER, ROTHSTEIN & EBENSTEIN 90 PARK AVENUE NEW YORK, NY 10016	N LLP	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY						
		(PCT Rule 43bis.1)						
		Date of mailing (day/month/year) 22 APR 2005						
Applicant' s or agent's file reference		FOR FURTHER ACTION See paragraph 2 below						
96700/939	International filing date	(day/month/year)	Priority date (day/month/year)					
International application No.	1	1						
PCT/US04/40852 International Patent Classification (IPC)	or both national classification	,12.2001)						
IPC(7): A61K 38/00 and US Cl.: 514/1 Applicant	2							
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1. This opinion contains indications r	elating to the following ne	1115.						
Box No. I Basis of the opinion								
Box No. II Priority								
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
Box No. IV Lack of unity of invention								
Box No. V Reasoned applicabil	Box No. V  Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain d	<u>, , , , , , , , , , , , , , , , , , , </u>							
Box No. VII Certain d	efects in the international	application	•					
Box No. VIII Certain o	bservations on the interna	tional application						
2. FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.								
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.								
For further options, see Form PCT/ISA/220.								
3. For further details, see notes to	Form PCT/ISA/220.	1 - 1 - 1 - 2 - 2 - EF	icer Million 11 11 11 11 11 11 11 11 11 11 11 11 11					
Name and mailing address of the ISA Mail Stop PCT, Ann: ISA/US	/ US	Marcela M Co	ordero Garcia					

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Form PCT/ISA/237 (cover sheet) (January 2004)

Mail Stop PCT, Ann: ISA/US Commissioner for Patents

P.O. Box 1450 Alexandria, Virginia 22313-1450

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/40852

Box No. I Basis of this opinion						
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).						
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
a. type of material						
a sequence listing						
table(s) related to the sequence listing						
b. format of material						
in written format						
in computer readable form						
c. time of filing/furnishing						
contained in international application as filed.						
filed together with the international application in computer readable form.						
furnished subsequently to this Authority for the purposes of search.						
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
4. Additional comments:						
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/40852

Box No. V Reasoned statement under Rula applicability; citations and expla	e 43 <i>bis</i> .1(a)(i anations supp	) with regard to orting such state	novelty, inventive st ment	ep or industrial			
1. Statement							
NT Jan. (NI)	Claims	1-71		YES			
Novelty (N)		NONE		NO			
				T/D0			
Inventive step (IS)		NONE		YES NO			
	Claims	1-71		1			
Industrial applicability (IA)	Claims	1-71		YES			
industrial approachity (21.1)		<del></del>		NO			
Claims NONE  Claims 1-71 lack an inventive step under PCT Article 33(3) as being obvious over Deacon et al. (Am J Physiol Endocrinol Metab, 2002) In view of Vincent et al (Am. N. Y. Acad. Sci. 2002). Deacon et al. beneficially teach a method of inhibiting hyperglycemia-induced or free fatry acid-induced reactive oxygen formation in a mammalian cell, the method comprisite with a pharmaceutically acceptable composition comprising GLP-1 (9-36) sufficient to inhibit the hyperglycemia-induced or free fatry acid-induced reactive oxygen formation in the cell (see, e.g., abstract and page E878).  Deacon et al. do not specifically teach inhibiting reactive oxygen formation by administration of GLP-1 (9-36). Vincent et al. teach that increased concentrations of glucose rapidly induce production of reactive oxygen species (ROS) (see, e.g., page 379, paragraph 1).  Therefore inhibiting reactive oxygen formation is considered an intrinsic effect of the anti-hyperglycemic compound GLP-1-(9-36) beneficially taught by Deacon et al.  It would have been obvious to one of ordinary skill in the art at the time the invention was made to adjust particular conventional working conditions within such method of inhibiting hyperglycemia (i.e., reducing blood glucose) (e.g., using different reactive oxygen indicators, combining with other treatments and/or utilizing analogs of GLP-1-(9-36) based upon the overall beneficial teachings provided by Deacon et al. and Vincent et al. These types of adjustments are deemed merely a matter of judicious selection and routine optimization that is well within the purview of the skilled artisan.  Thus, the invention as a whole is prima facie obvious over the reference, especially in the absence of evidence to the contrary.  Claims 1-71 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.							